

General Purpose Pulse Generators

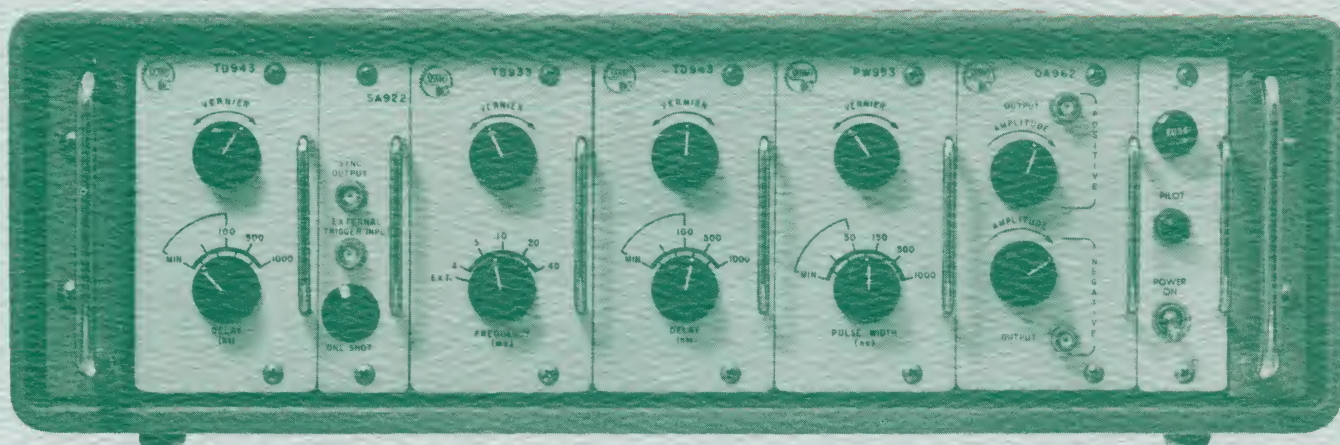
· Modular · Special Capabilities

...0.2 cps to 40 mc rep rates

...less than 5 ns rise times

...multi pulse capability

The 9000 Series SERVOPULSE® General Purpose Pulse Generators extends the modular design concept pioneered by Servo in pulse instrumentation. Many configurations are available combining modular functions of time delay; input, output, and sync amplification; time base and pulse width. Compact and uniform in dimensions, the modules can be arranged in the standard rack mounts to provide a wide range of specialized functions for little more than the cost of the standard instruments. Shown below is a typical twin pulse configuration. Many other combinations are possible, utilizing the same standard rack mount and general purpose power supply.



SEE OTHER SIDE FOR SPECIFICATIONS



SERVO CORPORATION OF AMERICA

111 New South Road • Hicksville, L.I., New York • WElls 8-9700

SERVOPULSE® PRODUCTS

Series 9000 SERVOPULSE® GENERATORS

	MODEL 9350	MODEL 9450	MODEL 9455	MODEL 9550
Frequency Range	.2 cps — 5 kc	100 cps — 2 mc	100 cps — 10 mc	2 mc — 40 mc
Delay	.1 ms — 1 sec.	0 — 1 millisecc.	0 — 1 microsec.	0 — 1 microsec.
Pulse Width	.1 ms — 1 sec.	.1 μ s — 1 ms.	25 ns — 1 μ s	25 ns — 1 μ s*
Simultaneous Pos & Neg Outputs	10V open circuit 7V into 93 ohms	10V open circuit 7V into 93 ohms	10V open circuit 7V into 93 ohms	10V open circuit 7V into 93 ohms
Rise & Fall Time	Under 5 nanosec.	Under 5 nanosec.	Under 5 nanosec.	Under 5 nanosec.
Max Duty Cycle At Full Amplitude	70%	70%—40% at 2 mc	90%	90%—60% at 40 mc
One Shot/Sync & External Trigger	Yes	Yes	Yes	Yes
Price	\$660.00	\$835.00	\$975.00	\$1,390.00

Flat top for all instruments less than $\pm 2\%$ at max. pulse width.

*15 ns @ 40 mc

Available Modules

TIME DELAY MODULES (JITTER 0.05% MAX.)

- **TD941** — Delay Range .1 ms to 1,000 ms in four decade ranges plus fill-in. Maximum duty cycle 60%. Price — \$135.00
- **TD942** — Delay Range .1 μ s to 1,000 μ s in four decade ranges plus fill-in. Maximum duty cycle 60% (40% at 2 mc). Price — \$175.00
- **TD943** — Delay Range 25 ns to 1,000 ns in four ranges plus fill-in. Maximum duty cycle 90% (60% at 40 mc). Price — \$235.00

AMPLIFIER MODULES

- **IA921** — Input Amplifier; provides external triggering from dc to 10 mc for the TB931 and TB932 with ac signals of levels down to 0.5 vrms; also provides single shot capability. Price — \$190.00
- **SA922** — Used with TB933; provides single shot capability and external triggering from dc to 40 mc. Provides sync output delayed approximately 70 ns from trigger pulse. Amplitude —2 volts from 50 ohms source impedance. Rise and fall time approximately 15 ns; width approximately 25 ns. Price — \$295.00

TIME BASE MODULES (JITTER 0.05% MAX.)

- **TB931** — Frequency range from 0.2 cps to 10 kc in 5 ranges plus fill-in. External trigger capability from dc to 10 megacycles with —1.0 volt signal with rise time better than 25 ns. Sync output is —2 volts from 220 ohm source impedance with 80 ns pulse width. Rise and fall time is approximately 30 ns. Price — \$180.00

- **TB932** — Frequency range 100 cps to 10 mc in five decade ranges plus fill-in. Other characteristics same as TB931. Price — \$275.00

- **TB933** — Frequency range 2 mc to 40 mc in four ranges plus fill-in. Price — \$395.00

PULSE WIDTH MODULES (JITTER 0.05% MAX.)

- **PW951** — Width range from 0.1 ms to 1,000 ms in four decade ranges plus fill-in. Maximum duty cycle 60%. Price — \$135.00
- **PW952** — Width range from 0.1 μ s to 1,000 μ s in four decade ranges plus fill-in. Maximum duty cycle 60% (40% at 2 mc). Price — \$175.00
- **PW953** — Width range from 25 ns to 1,000 ns in five decade ranges plus fill-in. Maximum duty cycle 90% (60% at 40 mc). Price — \$255.00

OUTPUT AMPLIFIER MODULES

- **OA961** — Simultaneous positive and negative pulses. 10 volts into 50 ohms, 20 volts open circuit from 50 ohm source impedance. 12 db variable attenuator. Rise and fall time into a 50 ohm load is 10 ns for positive pulses, 20 ns for negative pulses. Outputs are short circuit protected. Price — \$340.00
- **OA962** — Simultaneous positive and negative pulses. 7 volts into 93 ohms, 10 volts open circuit from 50 ohm source impedance. 6 db variable attenuator. Rise and fall time in 93 ohm load is less than 5 ns for both polarities. Outputs are short circuit protected. Price — \$275.00

FOR COMPLETE DETAILS, WRITE:



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SERVOPULSE® PRODUCTS

Information subject to change without notice.
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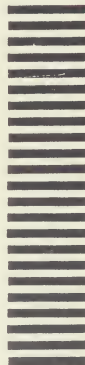
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We are pleased to enclose the literature you requested. Our representative in your area will be glad to furnish any additional information you may need, and to demonstrate the equipment in your plant. Please do not hesitate to call on him for assistance.

If you wish to be placed on our mailing list to receive future product bulletins, please complete the attached postcard and drop it in the mail.

PLEASE PLACE MY NAME ON YOUR MAILING LIST TO
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